

RECEIVED  
CENTRAL FAX CENTER  
**FAX TRANSMISSION**  
**FEB 07 2007**

**DATE:** February 7, 2007

**PTO IDENTIFIER:** Application Number 10/666,558-Conf. #5541  
Patent Number

**Inventor:** Sohl et al.

**MESSAGE TO:** US Patent and Trademark Office

**FAX NUMBER:** (571) 273-8300

**FROM:** VENABLE LLP

Ralph P. Albrecht

**PHONE:** (703) 760-1681

**Attorney Dkt. #:** 36507-193188

**PAGES (Including Cover Sheet):** 8

**CONTENTS:**

Information Disclosure Statement (2 pages)  
IDS Form SB-08A/B with 6 cited references (1 page)  
Transmittal Form SB/21 (1 page)  
Fee Transmittal Form SB/17 (1 page)  
Yellow filing receipt (1 page)  
Certificate of Transmission (1 page)  
FAX transmittal cover sheet (1 page)

If your receipt of this transmission is in error, please notify this firm immediately by collect call to sender at (703) 760-1681 and send the original transmission to us by return mail at the address below.

This transmission is intended for the sole use of the individual and entity to whom it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. You are hereby notified that any dissemination, distribution or duplication of this transmission by someone other than the intended addressee or its designated agent is strictly prohibited.

VENABLE LLP  
P.O. Box 34385, Washington, DC 20043-9998  
Telephone: (202) 344-4000 Facsimile: (202) 344-8300

826560

FROM VENABLE LLP VIENNA VA

**RECEIVED  
CENTRAL FAX CENTER**

7'07 12:09/ST. 12:09/NO. 4862865029 P 2

**FEB 07 2007**

PTO/SB/97 (09-08)

Approved for use through 03/31/2007. OMB 0651-0031

U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Application No. (if known): 10/666,558

Attorney Docket No.: 36507-193188

**Certificate of Transmission under 37 CFR 1.8**

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office.

on February 7, 2007  
Date

C. Allen  
Signature

**Carla J. Allen**

Typed or printed name of person signing Certificate

Registration Number, if applicable

(703) 760-1611

Telephone Number

Note: Each paper must have its own certificate of transmission, or this certificate must identify each submitted paper.

Information Disclosure Statement (2 pages)  
IDS Form SB 08A/B with 6 cited references (1 page)  
Transmittal Form SB/21 (1 page)  
Fee Transmittal Form SB/17 (1 page)  
Yellow filing receipt (1 page)  
Certificate of Transmission (1 page)  
FAX transmittal cover sheet (1 page)

826584

FROM VENABLE LLP VIENNA VA

# PATENT PROSECUTION RECEIPT OF FILING

**RECEIVED**

CENTRAL FAX CENTER

FEB 07 2007

137825

**Venable Filing Number**

**Atty. Docket No:** 38507-193188

**Title of Application:** ENHANCED SUBSURFACE SCANNING SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT

**Application No:** 10/666,558

Patent No.:

Attorney/LAA: RPA:cja

**PTO Due Date:** \_\_\_\_\_

**Current Date:**

**The following items were received from Venable LLP, Washington, D.C., by the U.S. Patent & Trademark Office on the date stamped hereon:**

**U.S. PTO FEES ENCLOSED**

- Transmittal Form SB/21 (1 page)**
  - Fee Transmittal Form SB/17 (1 page)**
  - New U.S. Patent Application  
( pages of specification/claims)
  - Rule 53(d) Continued Prosecution Application
  - Rule 53(b) Continuation or Divisional Application  
(attach copy of specification, claims, drawings and declaration)
  - U.S. National Stage Application of PCT Application
  - Request for Continued Examination (RCE) under 37 CFR 1.114
  - Application Data Sheet
  - Substitute Specification
  - Priority Document-Cert. Copy of  
Appln.#: ; Country: ; Date Filed:
  - Formal Drawings ( sheets, Figs.)
  - Inventor Declaration
  - Assignment w/Cover Sheet
  - Response to Notice to File Missing Parts
  - Response to Notice to File Missing Requirements
  - Response to Requirement
  - Information Disclosure Statement (2 pages)**
  - IDS Form SB 08A/B with 6 cited references (1 page)**
    - Amendment      Preliminary Amendment
    - Petition/Request for Extension of Time ( mo. ext.)
    - Power of Attorney
    - Petition to Revive
    - Sequence Listing – CDR Enclosed?      Yes      No
    - Request for Non-Publication
    - Reply Brief (*in triplicate*) /      Request for Oral Hearing
    - Confirmation of Hearing Petition
    - Issue Fee Transmittal
    - Certificate of Correction
    - Maintenance Fee Transmittal
    - Status Inquiry
  - Other: (Please describe below)**
  - Yellow filing receipt

<u> </u>	Filing Fee
<u> </u>	Surcharge Fee
<u> </u>	Additional Claim Fee
<u> </u>	Recordation/Indexing Fee
<b><u>180.00</u></b>	<b>IDS Fee</b>
<u> </u>	Extension Fee
<u> </u>	Notice of Appeal Fee
<u> </u>	Brief on Appeal
<u> </u>	Oral Hearing Request Fee
<u> </u>	Petition Fee
<u> </u>	Issue Fee
<u> </u>	Publication Fee
<u> </u>	Maintenance Fee
<u> </u>	<b>Other Fees (Describe)</b>
<b><u>180.00</u></b>	<b>Total Fees Paid</b>

Check Number \_\_\_\_\_ Attached

Charge Deposit Account No.  
22-0261

**\*If Deposit Account was used, was a copy of this form sent to Accounting?**

Yes     No

2/7/07

Date

Reviewed By:

**Signature of Attorney**

826357

FROM VENABLE LLP VIENNA VA

RECEIVED 2/7/07 12:10/ST. 12:09/NO. 4862865029 P 4  
CENTRAL FAX CENTER

FEB 07 2007

PTO/SB/21 (09-06)

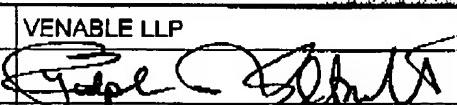
Approved for use through 03/31/2007. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>TRANSMITTAL FORM</b>		Application Number 10/666,558-Conf. #5541
(to be used for all correspondence after initial filing)		Filing Date September 22, 2003
		First Named Inventor John H. Sohl, III
		Art Unit 1743
		Examiner Name K. A. MOSS
Total Number of Pages in This Submission		Attorney Docket Number 36507-193188

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form SB/17 <input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter
<input checked="" type="checkbox"/> Transmittal Form SB/21 <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD. Number of CD(s) _____
<input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input checked="" type="checkbox"/> IDS Form SB 08A/B with 6 cited references <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Landscape Table on CD	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <b>Yellow filing receipt (1 page)</b>
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm Name	VENABLE LLP
Signature	
Printed name	Ralph P. Albrecht
Date	2/7/07
	Reg. No. 43,466

826377

FROM VENABLE LLP VIENNA VA

**RECEIVED**  
**CENTRAL FAX CENTER**

FEB 07 2007

PTO/SB/17 (07-06)

Approved for use through 01/31/2007. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no person are required to respond to a collection of information unless it displays a valid OMB control number.

<i>Effective on 12/08/2004.</i> <i>Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).</i>		<i>Complete if Known</i>	
<b>FEE TRANSMITTAL</b>		Application Number	10/686,558-Conf. #5541
For FY 2006		Filing Date	September 22, 2003
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		First Named Inventor	John H. Sohl, III
		Examiner Name	K. A. Moss
		Art Unit	1743
<b>TOTAL AMOUNT OF PAYMENT</b>		( <b>\$</b> ) 180.00	Attorney Docket No.
36507-193188			

**METHOD OF PAYMENT** (check all that apply)

<input type="checkbox"/> Check	<input type="checkbox"/> Credit Card	<input type="checkbox"/> Money Order	<input type="checkbox"/> None	<input type="checkbox"/> Other (please identify): _____
<input checked="" type="checkbox"/> Deposit Account		Deposit Account Number: 22-0261		Deposit Account Name: Venable LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

<input type="checkbox"/> Charge fee(s) indicated below	<input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee
<input checked="" type="checkbox"/> Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17	<input checked="" type="checkbox"/> Credit any overpayments

**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

<u>Application Type</u>	<u>FILING FEES</u>		<u>SEARCH FEES</u>		<u>EXAMINATION FEES</u>		<u>Fees Paid (\$)</u>
	<u>Fee (\$)</u>	<u>Small Entity Fee (\$)</u>	<u>Fee (\$)</u>	<u>Small Entity Fee (\$)</u>	<u>Fee (\$)</u>	<u>Small Entity Fee (\$)</u>	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES**Fee Description

Each claim over 20 (including Reissues)

<u>Small Entity Fee (\$)</u>	<u>Fee (\$)</u>
------------------------------	-----------------

50 25

Each independent claim over 3 (including Reissues)

200 100

Multiple dependent claims

360 180

<u>Total Claims</u>	<u>Extra Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>	<u>Multiple Dependent Claims</u>	
				<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
-	-	=	=		
HP = highest number of total claims paid for, if greater than 20.					

<u>Indep. Claims</u>	<u>Extra Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
-	-	=	=		

HP = highest number of independent claims paid for, if greater than 3.

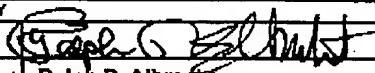
**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(c)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

<u>Total Sheets</u>	<u>Extra Sheets</u>	<u>Number of each additional 50 or fraction thereof</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
- 100 -	/50	(round up to a whole number) x	=	

**4. OTHER FEE(S)**

Other (e.g., late filing surcharge): 1806 Submission of an Information Disclosure Statement 180.00

<b>SUBMITTED BY</b>			
Signature			Registration No. (Attorney/Agent) 43,466 Telephone (703) 760-1681
Name (Print/Type)	Ralph P. Albrecht Date 2/7/07		

826353

FROM VENABLE LLP VIENNA VA

(WED) 2. 7' 07 12:10/ST. 12:09/NO. 4862865029 P 6

RECEIVED  
CENTRAL FAX CENTER  
FEB 07 2007

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Atty. Docket No: 36507-193188

Sohl et al.

Art Unit: 1743

Application No: 10/666,558

Examiner: K. A. Moss

Confirmation No: 5541

Customer No: 26694

PATENT TRADEMARK OFFICE

Filed: September 22, 2003

For: **ENHANCED SUBSURFACE  
SCANNING SYSTEM, METHOD AND  
COMPUTER PROGRAM PRODUCT**

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed more than three months after the U.S. filing date, OR more than three months after the date of entry of the national stage of a PCT application, AND after the mailing date of the first Office Action on the merits, whichever occurs first, but before the mailing date of a Final Office Action or Notice of Allowance (37 CFR 1.97(c)).

In accordance with 37 CFR 1.98(a)(2)(ii), Applicant has not submitted copies of U.S. patents and U.S. patent applications. Applicant submits herewith copies of foreign patents and non-patent literature in accordance with 37 CFR 1.98(a)(2).

02/08/2007 EAYALEW1 00000027 220261 10365558

01 FC:1008 100.00 DA

FROM VENABLE LLP VIENNA VA

RECEIVED  
CENTRAL FAX CENTER  
FEB 07 2007  
2007 02 07 12:11/ST. 12:09/NO. 4862865029 P 7

Application No.: 10/666,558

Docket No.: 36507-193188

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

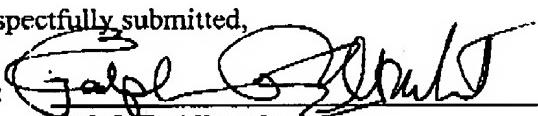
It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

Please charge our Deposit Account No. 22-0261 in the amount of \$180.00 covering the fee set forth in 37 CFR 1.17(p). The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0261, under Order No. 36507-193188. A duplicate copy of this paper is enclosed.

Dated: 2/7/07

Respectfully submitted,

By:

  
Ralph P. Albrecht

Registration No.: 43,466

VENABLE LLP  
P.O. Box 34385  
Washington, DC 20043-9998  
(202) 344-4000  
(202) 344-8300 (Fax)  
Attorney/Agent For Applicant

826351

FROM VENABLE LLP VIENNA VA

**RECEIVED**  
**CENTRAL FAX CENTER** 07 12:11/ST. 12:09/NO. 4862865029 P 8  
**FEB 07 2007**

PTO/SB/08A/B (09-08)

Approved for use through 03/31/2007. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/666,558-Conf. #5541
				Filing Date	September 22, 2003
				First Named Inventor	John H. Sohl, III
				Art Unit	1743
				Examiner Name	K. A. Moss
Sheet	1	of	1	Attorney Docket Number	
36507-193188					

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
AA*	US-4,725,551		02-16-1988	Thompson	
AB	US-US2002/0169558		11-14-2002	Smith et al.	
AC*	US-3,999,065		12-21-1976	Briggs, V/alton E.	
AD*	US-5,421,193		06-06-1995	Carlin et al.	
AE*	US-7,003,405		02-21-2008	Ho	
AF*	US-5,946,094		08-31-1999	Sahlgren et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
					T <sup>6</sup>

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \*CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. \*Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Paten: Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 801.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional) <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	Date Considered
--------------------	-----------------